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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/509,506	09/28/2004	Yoshio Okamoto	3400.P1414US	4041	
	7590 03/26/200 L BOUTELL & TANIS	EXAMINER			
2026 RAMBLII	NG ROAD	THERKORN, ERNEST G			
KALAWAZUU	), MI 49008-1631		ART UNIT	PAPER NUMBER	
		1723			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MOI	NTHS	03/26/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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Office Action Summary		Applicati	Application No. Applicant(s)				
		10/509,5	06	OKAMOTO ET AL.			
		Examine	r	Art Unit			
			Therkorn	1723			
The MAILI	NG DATE of this communication	on appears on th	e cover sheet with the c	orrespondence a	ddress		
WHICHEVER IS  - Extensions of time ma after SIX (6) MONTHS  - If NO period for reply if  - Failure to reply within Any reply received by	STATUTORY PERIOD FOR F LONGER, FROM THE MAILIN y be available under the provisions of 37 of from the mailing date of this communicati s specified above, the maximum statutory the set or extended period for reply will, by the Office later than three months after the justment. See 37 CFR 1.704(b).	NG DATE OF TI CFR 1.136(a). In no ex- ion. period will apply and w y statute, cause the app	HIS COMMUNICATION /ent, however, may a reply be tim /ill expire SIX (6) MONTHS from plication to become ABANDONE	N. nely filed the mailing date of this O (35 U.S.C. § 133).			
Status							
2a) This action 3) Since this a	pplication is in condition for a cordance with the practice ur	This action is r	for formal matters, pro		e merits is		
Disposition of Claim							
4a) Of the a 5) ☐ Claim(s) 6) ☑ Claim(s) 7) ☐ Claim(s) 1-	14 is/are pending in the applications bove claim(s) 4-8 is/are withdresses is/are allowed. is/are rejected. and 9-14 is/are objected to. are subject to restriction a	rawn from consi					
Application Papers							
10) The drawing Applicant ma Replacemen	ation is objected to by the Exa (s) filed on is/are: a) [ y not request that any objection to t drawing sheet(s) including the o declaration is objected to by t	accepted or by to the drawing(s) correction is require	be held in abeyance. See red if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	• •		
Priority under 35 U.S	S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References	s Cited (PTO-892)		4) Interview Summary	(PTO-413)			
2) Notice of Draftsperso	on's Patent Drawing Review (PTO-94 re Statement(s) (PTO/SB/08)	·8)	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3, 9, 10, 12, and 13 are rejected under 35 U.S.C. 102(B) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034. PTO Translation No. 06-3034 will serve as a translation for Japan Patent No. 4-202141. The claims are considered to read on either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034. However, if a difference exists between the claims and either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034, it would reside in optimizing the elements of either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034. It would have been obvious to optimize the elements of either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 to enhance separation.

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Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 in view of Murakami (E.P. No. 656,333). At best, the claim differs from either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 in reciting the polysaccharide derivative has a polymerizable group at position 6. Murakami (E.P. No. 656,333) (page 3, lines 22-24) discloses the 6-position is a desirable location to link polysaccharides. It would have been obvious to have a polysaccharide derivative with a polymerizable group at position 6 in either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 in view of Murakami (E.P. No. 656,333) because Murakami (E.P. No. 656,333) (page 3, lines 22-24) discloses the 6-position is a desirable location to link polysaccharides.

Claims 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 in view of Oda (U.S. Patent No. 6,117,325). At best, the claims differ from either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 in reciting use of cellulose phenylcarbamate. Oda (U.S. Patent No. 6,117,325) (column 1, lines 36-39) discloses that cellulose phenylcarbamate is commercialized and widely used because of its high optical resolving powers. It would have been obvious to use cellulose phenylcarbamate in either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 in view of Oda (U.S. Patent No. 6,117,325) because Oda

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(U.S. Patent No. 6,117,325) (column 1, lines 36-39) discloses that cellulose phenylcarbamate is commercialized and widely used because of its high optical resolving powers.

The remarks urge patentability based upon the immobilization rate of polysaccharide being of at least 80%. Inasmuch as the recited process steps and the process steps of both Kimata (U.S. Patent No. 5,302,633) and Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 are the same, the immobilization rate would appear to be the same.

The remarks urge that Kimata (U.S. Patent No. 5,302,633) does not show the use of monomers. However, Kimata (U.S. Patent No. 5,302,633) on column 5, lines 43-53 discloses use of monomers.

The remarks urge that Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034 does not show the use of monomers. However, the PTO Translation No. 06-3034 on page 7, the last sentence of the second paragraph discloses use of monomers.

The remarks urge patentability based upon unexpected results. However, the comparison has not been made with the closest prior art, i.e., either Kimata (U.S. Patent No. 5,302,633) or Japan Patent No. 4-202141 in view of PTO Translation No. 06-3034. As such, the comparison is not considered to be pertinent.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Ernest G. Therkorn Primary Examiner Art Unit 1723

EGT March 23, 2007